

3. B.F.

$$1) \frac{(x^2 - y^2) \cdot 6x}{\textcircled{3} \cdot \textcircled{y} - \textcircled{3} \cdot \textcircled{x}}$$

$$= \frac{\textcircled{+x-y} (x+y) \cdot \cancel{6x}^{2 \cdot 1}}{\cancel{3x}^{1 \cdot 1} \textcircled{+y-x}}$$

$$= \frac{(-1) \cancel{(-x+y)} (x+y) \cdot 2}{\cancel{(+y-x)}}$$

$$= (-2)(x+y) //$$

$$2.) \frac{(u+v) \cdot v}{(u-v) \cdot v} + \frac{(u)(u-v)}{(v)(u-v)} \cdot \frac{1}{1} \frac{1(u-v) \cdot v}{(u-v) \cdot v} = \frac{(u+v) \cdot v + u \cdot (u-v) + (u-v) \cdot v}{(u-v) v}$$

$$= \frac{uv + \cancel{v^2} + u^2 - \cancel{uv} + \cancel{uv} - \cancel{v^2}}{(u-v) v}$$

$$= \frac{uv + u^2}{(u-v) v}$$

$$= \frac{(v+u) \cdot u}{(u-v) v}$$

3)

$$(a^2-4) : \frac{a^2-2a}{a^2+2a}$$

$$= \frac{(a^2-4) \cdot \overset{g \cdot a}{(a^2+2a)}}{a^2-2a}$$

Z.B.F.

$$= \frac{\cancel{(a-2)}(a+2) \cdot \cancel{a}(a+2)}{\cancel{a} \cdot \cancel{(a-2)}}$$

$$\frac{(a+2)(a+2)}{1}$$

$$= (a+2)^2$$

$$= \underbrace{(a+2)^2}_{\text{binomisch}} \left[= a^2 + \overset{\text{binomisch}}{4a} + 4 \right]$$

$$4) \quad \frac{2}{\frac{1}{b} + \frac{1}{a}} \quad \text{---} \quad \frac{a}{\frac{1}{b} - \frac{1}{a}} = \frac{2}{\left(\frac{b+a}{ab}\right)} - \frac{a}{\left(\frac{b+a}{b}\right)}$$

$$= 2 \cdot \left(\frac{ab}{a+b}\right) - a \left(\frac{b}{a+b}\right)$$

$$= \frac{2ab - ab}{a+b}$$

$$= \frac{ab}{a+b} //$$